

# Advanced Diploma in Electrical Engineering / Electrical Technology

## Orientation Session Information

### (1) Learning Support Website

All e-Learning materials can be downloaded from

[www.electricaldiploma2013.zoomshare.com](http://www.electricaldiploma2013.zoomshare.com)

OR

[www.electricaldiploma2013.webs.com](http://www.electricaldiploma2013.webs.com)

OR

[www.mongroupsydneey1.com/ee.htm](http://www.mongroupsydneey1.com/ee.htm)

## (2) Learning Support Website

### Home

Some resources in this site are password protected. Password will be given to the students who come and enrol in the classroom.

### Advanced Diploma in Electrical Engineering & Technology

#### Students Information

[USI-Unique Students Identifier](#)

[RPL Form](#)

[Work Health & Safety Management System](#)

**All students must read the followings A,B & C**

(☐ ↑ A) [Assessment Guides for the units taught by Joe](#)

(B) [Assessment Cover Sheet](#)

(C) [Assessment Feedback sheet](#)

#### EXPLANATION

You need to click the links to get USIO, RPL Forms , Work Health & Safety Information, Assessment Guides for the units taught by Joe & Assessment Cover/ Feedback sheets.

The current training package needs to be viewed for more information about the units.

[Current Training Package UEE11](#)

[Current Training Package UET12](#)

Print out & bring the following documents when you come to the test & [submit](#) the assessment to have teacher's signature

[Assessment Cover Sheet](#)

[Assessment Feedback sheet](#)

[Assessing Overseas Qualifications for RPL \(Information for Candidates\)](#)

**PART (1) ADVANCED DIPLOMA ELECTRICAL RESOURCES**

[20281+20282+20278 Syllabus](#)

### **EXPLANATION**

The contents in your units & assessment information/ pre-requisites can be found in the above links. What units you need to do to complete your course can also be found

# **EE07-EE011 Study Guide**

## **EXPLANATION**

Lesson materials, class lessons, audio explanations, videos, reference textbooks, exercises and practicals for all units in your course can be found in the above link.

## **UNITS MAPPING**

The unit number of the version of your course will be advised by teacher. Please see the information handouts that provide the information on the links to download the lessons & information related to exercises.

[E081 Class Lessons](#)

[E081 Material Science](#)

[Non Metallic Materials](#)

[E083 Electro-technology Competency Development](#)

[E083 Electro-technology Competency Development \(Electronics\)](#)

[G033+G063+G107 \(Week 1 to 6 Lessons\)\(G033\)](#)

[G063 Wk 7+8](#)

[G033 Hot Water System](#)

[G106 Cable Termination](#)

[G106+G033 Practical](#)

[G033+G063+G107 Week 10 to 15](#)

### **EXPLANATION**

**The lessons for UEENEEE081, UEENEEG033 UEENEEG063,UEENEEG107 ,UEENEEE083 can be directly downloaded from the above links**

[Online Theory & MCQ Practice](#)

[Online Practical Practice](#)

[Online Theory & Practical Tests](#)

[Tracking sheets](#)

[20281+20282+20278+17908+17794+17796](#)

[\*\*Units tracking sheets to check your progress\*\*](#)

[EE011 Courses Tracking Sheets](#)

[\*\*EE07 Units tracking sheets to check your progress\*\*](#)

[Theory and practical instruction to students](#)

[Instruction to students.doc](#)

### **EXPLANATION**

The information related to online practical/ tracking sheets for units completion can be found in the above links.

## Study Option (1)

Guided study (Online)Resources+Online exercises+Online Practicals

Click [HERE](#) You need to enter the password **joe2013**

### EXPLANATION

All flexible delivery students must access study option 1, by clicking the above link to download the lessons.

They also need to download the exercises by clicking the link below.

### Online Exercises

Click [HERE](#) to download G037+G038+G039+E046 Exercises

Click [HERE](#) to download other Exercises

Then you will see the page on next slides

**Study Option (1) Guided Online / USB Based flexible study**

**Study area (1)Power System**

**Study area (2)Electrical Machines Drive System + Magnetics**

**Study area (3)Power Electronics**

**Study area (4)Process Control**

**Study area(5)Renewable Energy**

**Study area(6)Electrical Fundamental+ Maths+ Physics+ Materials Science**

**Study area(7)Electrical Trade Study**

**Study area (8)Project+ Risk assessment+ Contracting**

**Study area (9) Professional +Trade Practice**

The units relevant to guided online study notes given in the class for all courses up to date are shown in tables. If you are doing **self study** , the reference notes for relevant reference units are to be referred. Consult with teacher for relevancy & mapping of the units.

The guided lessons cover the following courses.

332, 338, 249, 17908, 17794, 17788, UEE62211

### **UNITS MAPPING**

**The unit number of the version of your course will be advised by teacher.  
Please see the information handouts that provide the information on the links to download the lessons & information related to exercises.**



**The training is provided for**

312311 Electrical Engineering Draftsperson

312312 Electrical Engineering Technician

**You need to bring your laptop to copy the lesson & exercise files from USB instead of downloading.**

**(1)DOWNLOAD LINK FOR GUIDED STUDY ONLINE LESSON (ONLY WRITINGS) + EXERCISE ASSIGNMENTS**

**[http://www.filefactory.com/file/cf8706f/n/Onlineclass\\_upload.zip](http://www.filefactory.com/file/cf8706f/n/Onlineclass_upload.zip)**

**(2)DOWNLOAD LINK FOR EXERCISES**

Click [HERE](#) to download G037+G038+E046 Exercises

Click [HERE](#) to download the other exercises

**(3)DOWNLOAD LINK FOR PRACTICAL**

Click [HERE](#) to download the practicals

**<http://www.filefactory.com/file/cf88135/n/Practical.zip>**

**(4)DOWNLOAD LINK FOR GUIDED STUDY ONLINE LESSON (WRITINGS ON WHITE BOARD + AUDIO FILES)**

[Amplifier+Power Supply+Digital H011+H012+H013.zip](#)

[http://www.filefactory.com/file/c0b64d1/n/Amplifier Power Supply Digital H011 H012 H013.zip](http://www.filefactory.com/file/c0b64d1/n/Amplifier_Power_Supply_Digital_H011_H012_H013.zip)

[Building Design+Material Science-K041+E047.zip](#)

[http://www.filefactory.com/file/c0b645d/n/Building Design Material Science-K041 E047.zip](http://www.filefactory.com/file/c0b645d/n/Building_Design_Material_Science-K041_E047.zip)

[Circuit G048+E025.zip](#)

[http://www.filefactory.com/file/c0b6512/n/Circuit G048 E025.zip](http://www.filefactory.com/file/c0b6512/n/Circuit_G048_E025.zip)

[Elect Fundamental E029+G012+G001+G002+G060.zip](#)

[http://www.filefactory.com/file/c0b6601/n/Elect Fundamental E029 G012 G001 G002 G060.zip](http://www.filefactory.com/file/c0b6601/n/Elect_Fundamental_E029_G012_G001_G002_G060.zip)

[Elect Machine-G043+G044+G045.zip](#)

[http://www.filefactory.com/file/c0b6668/n/Elect Machine-G043 G044 G045.zip](http://www.filefactory.com/file/c0b6668/n/Elect_Machine-G043_G044_G045.zip)

[Electrical Workshop+Wiring E001+2+3+4+5+7+8+33+G003+4+7.zip](#)

[http://www.filefactory.com/file/c0b67b7/n/Electrical Workshop Wiring E001 2 3 4 5 7 8 33 G003 4 7.zip](http://www.filefactory.com/file/c0b67b7/n/Electrical_Workshop_Wiring_E001_2_3_4_5_7_8_33_G003_4_7.zip)

[Maths 1-E050+G047.zip](#)

[http://www.filefactory.com/file/c0b673d/n/Maths 1-E050 G047.zip](http://www.filefactory.com/file/c0b673d/n/Maths_1-E050_G047.zip)

[Maths 2-E026.zip](#)

[http://www.filefactory.com/file/c0b6775/n/Maths 2-E026.zip](http://www.filefactory.com/file/c0b6775/n/Maths_2-E026.zip)

[Physics-E046 Part 1.zip](#)

[http://www.filefactory.com/file/c0b68a1/n/Physics-E046 Part 1.zip](http://www.filefactory.com/file/c0b68a1/n/Physics-E046_Part_1.zip)

Power Electronics -H025+H026.zip

[http://www.filefactory.com/file/c0b6857/n/Power\\_Electronics -  
H025 H026.zip](http://www.filefactory.com/file/c0b6857/n/Power_Electronics_-_H025_H026.zip)

Power System 1-G015+G046+A010

AA.zip

<http://www.filefactory.com/file/c0b7e92/n/AA.zip>

AE.zip

<http://www.filefactory.com/file/c0b7ff7/n/AE.zip>

AG.zip

<http://www.filefactory.com/file/c0b7f21/n/AG.zip>

A010.zip

<http://www.filefactory.com/file/c0b7f3c/n/A010.zip>

Power system 2-G037+G038+G039.zip

[http://www.filefactory.com/file/c0b7a33/n/Power system 2-G037 G038 G039.zip](http://www.filefactory.com/file/c0b7a33/n/Power_system_2-G037_G038_G039.zip)

Power Transformer+Line-G040.zip

[http://www.filefactory.com/file/c0b7bd2/n/Power Transformer Line-G040.zip](http://www.filefactory.com/file/c0b7bd2/n/Power_Transformer_Line-G040.zip)

Projectspecification+planning+management+Risk+OHS. G069+G070+E071+E011+E017.zip

[http://www.filefactory.com/file/c0b7b84/n/Project specification planning management Risk OHS.G069 G070 E071 E011 E017.zip](http://www.filefactory.com/file/c0b7b84/n/Project_specification_planning_management_Risk_OHS.G069_G070_E071_E011_E017.zip)

Renewable Energy-K025+K035.zip

[http://www.filefactory.com/file/c0b7c5e/n/Renewable Energy-K025 K035.zip](http://www.filefactory.com/file/c0b7c5e/n/Renewable_Energy-K025_K035.zip)

Transmission line-G042.zip

[http://www.filefactory.com/file/c0b7dad/n/Transmission line-G042.zip](http://www.filefactory.com/file/c0b7dad/n/Transmission_line-G042.zip)

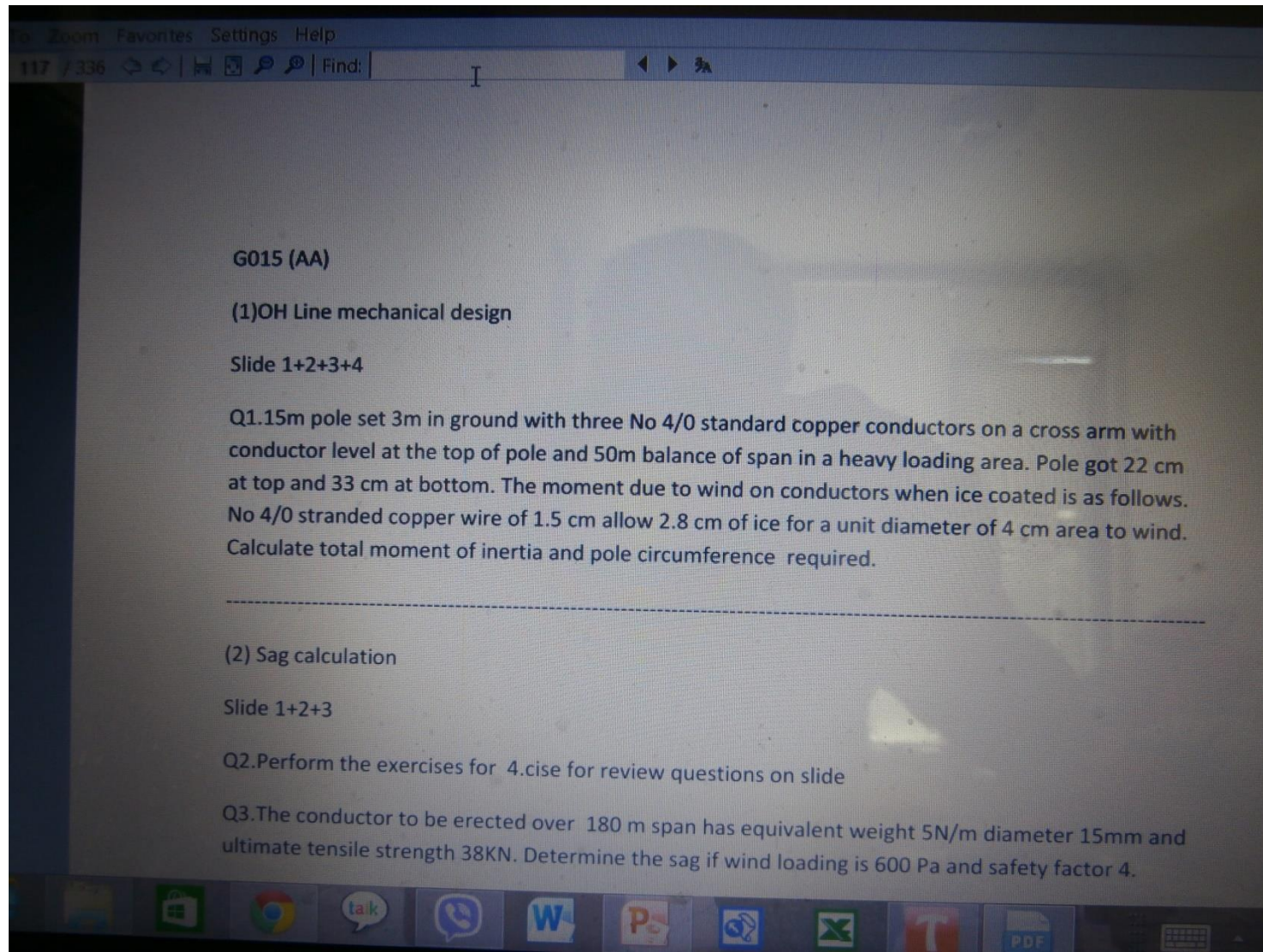
Process control-I006+I008+I020.zip

[http://www.filefactory.com/file/c0b7d9d/n/Process control-I006 I008 I020.zip](http://www.filefactory.com/file/c0b7d9d/n/Process_control-I006_I008_I020.zip)

Click [HERE](#) to download other Exercises

Example----The question is given like this-G015(AA)

(1) OH Line Mechanical Design- Slide 1/2/3/4 Q1



The image is a screenshot of a presentation slide titled "G015 (AA)". The slide content is as follows:

**G015 (AA)**

**(1)OH Line mechanical design**

**Slide 1+2+3+4**

Q1.15m pole set 3m in ground with three No 4/0 standard copper conductors on a cross arm with conductor level at the top of pole and 50m balance of span in a heavy loading area. Pole got 22 cm at top and 33 cm at bottom. The moment due to wind on conductors when ice coated is as follows. No 4/0 stranded copper wire of 1.5 cm allow 2.8 cm of ice for a unit diameter of 4 cm area to wind. Calculate total moment of inertia and pole circumference required.

---

**(2) Sag calculation**

**Slide 1+2+3**

Q2.Perform the exercises for 4.cise for review questions on slide

Q3.The conductor to be erected over 180 m span has equivalent weight 5N/m diameter 15mm and ultimate tensile strength 38KN. Determine the sag if wind loading is 600 Pa and safety factor 4.

Step (1) Access the lesson in the following link

Power System 1-G015+G046+A010

[AA.zip](#)

<http://www.filefactory.com/file/c0b7e92/n/AA.zip>

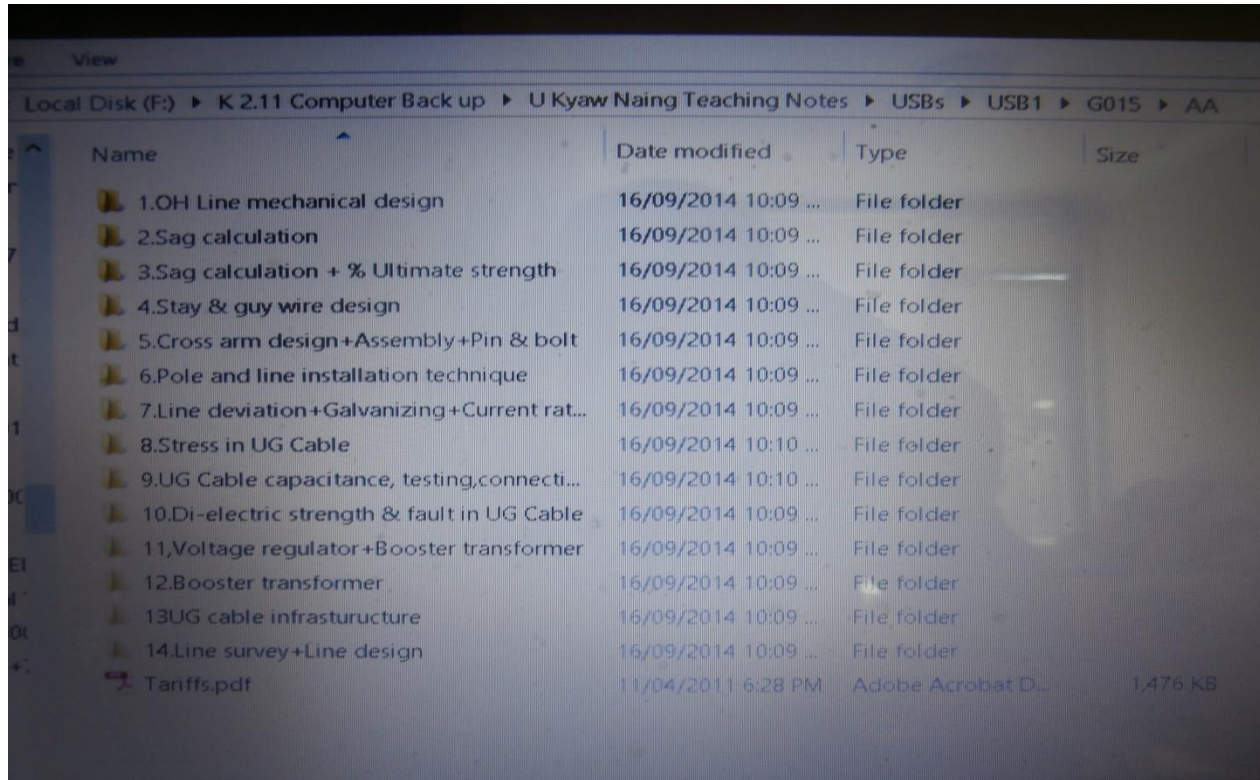
Step (1) Access the lesson in the following link

Power System 1-G015+G046+A010

[AA.zip](#)

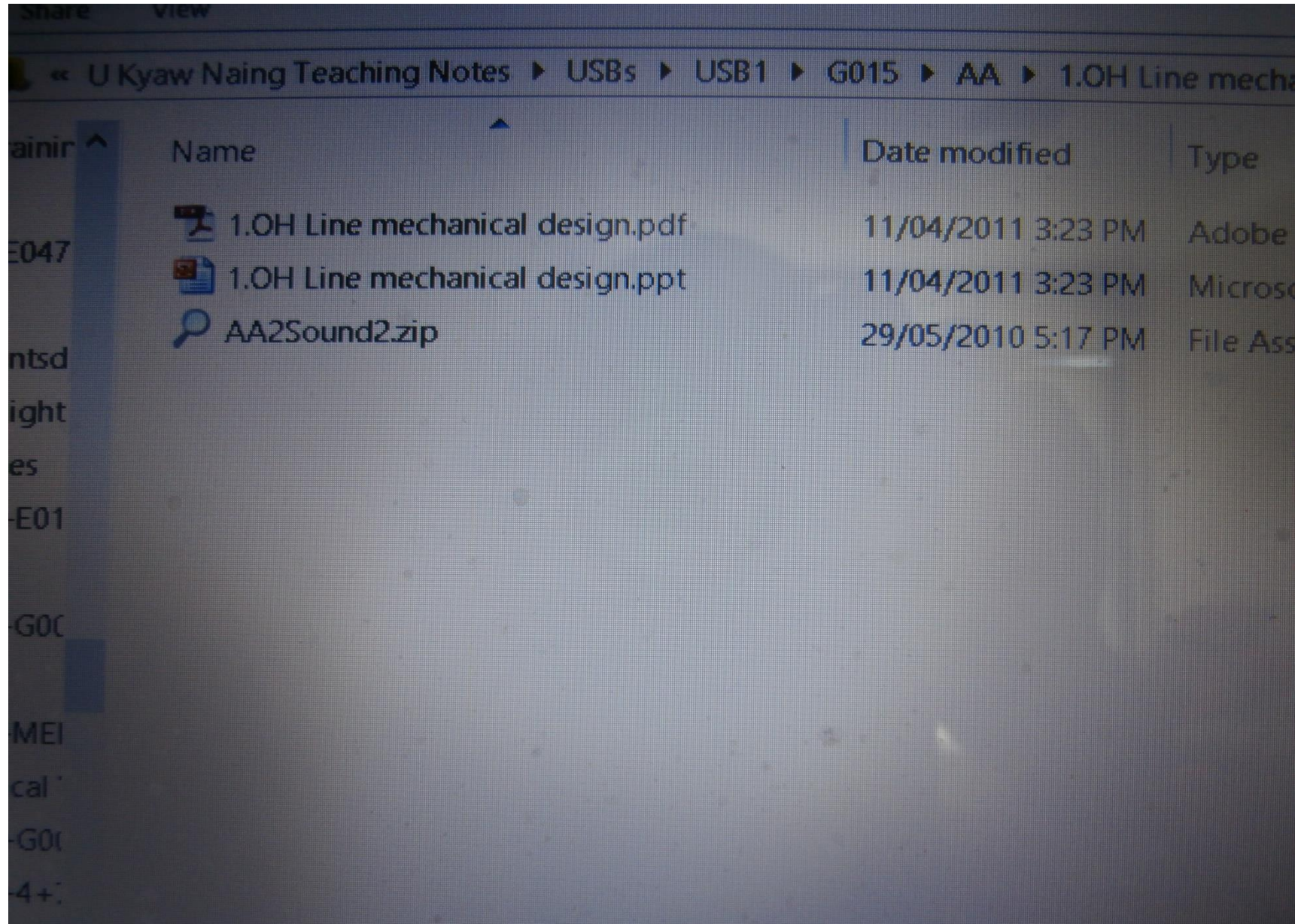
<http://www.filefactory.com/file/c0b7e92/n/AA.zip>

Then Select (1)OH Line mechanical design folder (You need to see slide 1/2/3/4)

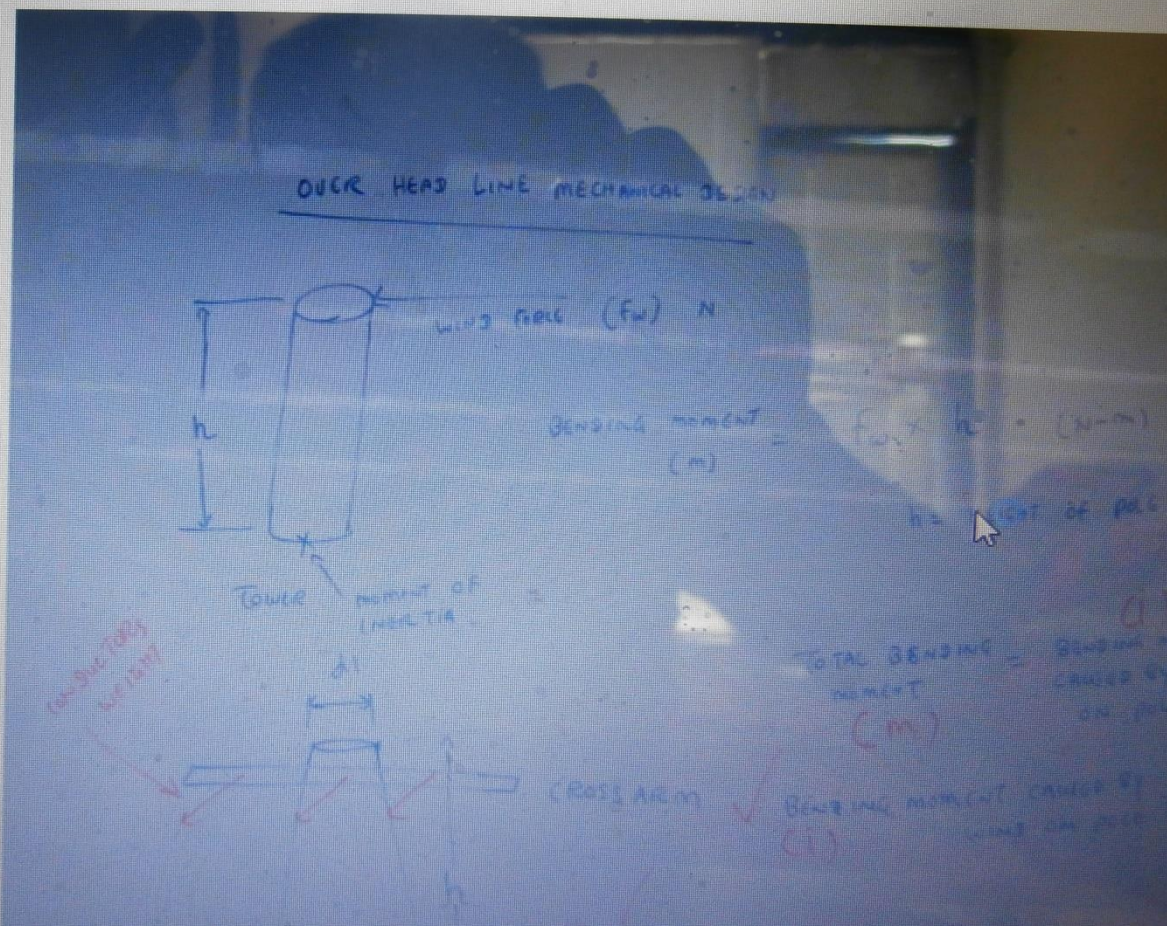




Step (2) Then open 1.OH Line mechanical design folder & see slide 1/2/3/4







Step (3)

Then see page 1/2/3/4 to answer the question

Then copy the answer from the pages/ slides

Similarly, study & do the exercises for the other units. The teacher will advise you which units number to do the exercises.

Then copy the answer from the pages/ slides.

Similarly, study & do the exercises for the other units. The teacher will advise you which units number to do the exercise and you need to see the handouts related to page numbers of exercises.

## **Study Option (2)**

Self study (Online) Resources+ Reference materials & Notes

Click [EE011 +1790817794.Zoomshare.com.PDF](https://www.zoomshare.com/join/EE011+1790817794)  
[Additional for 177908+17794 Folder](https://www.zoomshare.com/join/EE011+1790817794)

Click [EE011 +1790817794.Zoomshare.com](https://www.zoomshare.com/join/EE011+1790817794)

### **EXPLANATION**

The reference textbooks & handouts can be downloaded from the above links.

### **Study Option (3)**

Guided study (Face to Face) & Video Mode

(1) Attend the class

Click **[Class Teaching Slides + OHP Notes](#)**

(2) Take part in practicals

(3) Sit the examination

(4) Study the video lessons in the following link

**[Youtube Videos for Electrical Engineering Lessons](#)**

**[ElectricallessonvideosV2.htm](#)**

**<http://www.filefactory.com/file/3r5f8v3l6ltr/electricallessonvideosV2.htm>**

### **EXPLANATION**

The videos of the lessons can be downloaded from the above links.

From **[Youtube Videos for Electrical Engineering Lessons](#)**

The videos can be directly viewed from youtube.

## [Youtube Videos for Electrical Engineering Lessons](#)

### [TAFE Advanced Diploma in Electrical Engineering/ Technology](#)

#### [LESSON VIDEOS, PRACTICAL VIDEOS & PRACTICAL RESOURCES](#)

| <u><a href="#">Lessons</a></u> | <u><a href="#">Electrical Practical</a></u> | <u><a href="#">Electrical Laboratory</a></u> | <u><a href="#">Civil Practical</a></u> | <u><a href="#">Mechanical Practical</a></u> |
|--------------------------------|---------------------------------------------|----------------------------------------------|----------------------------------------|---------------------------------------------|
|                                |                                             |                                              |                                        |                                             |

[Lessons](#)—You can watch lesson explanation videos

[Electrical Practical](#)- You can watch electrical practical explanation videos

[Electrical Laboratory](#)-You can watch Diploma Level practical equipments set up/ circuits/ data record/ characteristics curve etc

[Civil Practical](#)- You can watch civil practical explanation videos

[Mechanical Practical](#)- You can watch mechanical practical explanation videos

Practicals

Work performance and practical  
instruction

Work performance + Practical Instruction

Back up

Click [HERE](#) to download practicals

## EXPLANATION

The electrical practicals for Electrical Trade & Electrical Diploma can be downloaded from the above links.

# Instruction to students UEE62211

## Online Exercises

Click [HERE](#) to download

G037+G038+G039+E046 Exercises

Click [HERE](#) to download other Exercises

## EXPLANATION

The exercises for Advanced Electrical Diploma can be downloaded from the above links.



## Project Management +Specification Delivery & Assessment Plan

---

### **Updated links & sites**

[Physics Part 2](#)

[1790817794Backup](#)

[References](#) (Printed notes for all electrical units)

[Business units assignments](#)

[Business Units Online Lesson Study Link](#)

[UEE62211 Business Units Competency & Practical](#)

[Business Units Competency](#)

[UEE62211 Business and Management Units Instruction](#)

### **EXPLANATION**

The lessons for Management/ Business/Project Management units of Advanced Electrical Diploma can be downloaded from the above links.

Reference Printed Lesson Back up for  
Electrical Risk Assessment  
Project Specification 2  
Power Project 2  
Project Risk Management References  
Computer Control Programming  
D150+D151

### EXPLANATION

The textbooks & lessons for Computer Control/ Control Programming & Microprocessor/controllers units of Advanced Electrical Diploma can be downloaded from the above links.

## Australian Electrician Training

Electrician Capstone unit.pdf

[http://www.filefactory.com/file/6ecr9u3lghnx/Electrician\\_Capstone\\_unit.pdf](http://www.filefactory.com/file/6ecr9u3lghnx/Electrician_Capstone_unit.pdf)

## Electrician Capstone Test Old Questions

Electrician Capstone Unit Study Guide.zip

[http://www.filefactory.com/file/1exf67d0e599/Electrician\\_Capstone\\_Unit\\_Study\\_Guide.zip](http://www.filefactory.com/file/1exf67d0e599/Electrician_Capstone_Unit_Study_Guide.zip)

-----

## **EXPLANATION**

*The lessons for Electrician Courses can be downloaded from the above links.*

## **PART (2) SELF STUDY IN ELECTRICITY SUPPLY INDUSTRY**

[Advanced Diploma in Electricity Supply Industry](#)  
[2006 to 2008 Teaching Notes + Practical Data](#)  
[2008 to 2010 Class lessons with audio files.](#)  
[Practical 1790817794](#)

### **EXPLANATION**

The textbooks & lessons for ESI (Electricity Supply Industry)  
Courses can be downloaded from the above links.

## Associate Degree in Applied Engineering (Renewable Energy)

### PART (3) RPL REFERENCES FOR EXPLOSION PROTECTION UNITS

Click [HERE](#) to access the references for explosion protection  
(UEENEEM---) Units

### EXPLANATION

*The lessons for Associate Degree in Applied Engineering (Renewable Energy) & Explosion Protection units of Advanced Diploma in Electrical Engineering/Technology Courses can be downloaded from the above links.*